

Application Serial No. 10/583,881
Reply to Office Action of October 15, 2008

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FEB 17 2009

PATENT
Docket: CU-4891

Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Applicant wishes to make the following amendments to the claims of the above patent application:

Listing of Claims

1. (currently amended) A method of recovering a base paper for gypsum board, which is configured to recover a base paper for gypsum board from a waste material of gypsum board comprising a gypsum core and the base paper for gypsum board adhering thereto, ~~characterized by~~ comprising the steps of
 breaking the waste material of gypsum board,
 separating a gypsum component and a paper piece of the base paper for gypsum board from the broken waste material of gypsum board, and
 washing the separated paper piece with water in using a rotary drum-type washing device so as to eliminate a gypsum component adhering to the paper piece from the paper piece, and further comprising a step of
 previously dispersing or mixing the separated paper piece into a portion of washing water before the separated paper piece is introduced to the rotary drum-type washing device.
2. (currently amended) The method of recovering a base paper for gypsum board as claimed in claim 1 ~~characterized by~~ further comprising a step of burning the broken waste material of gypsum board or the separated paper piece, wherein the burning step is provided before the water washing step.
3. (currently amended) The method of recovering a base paper for gypsum board as claimed in claim 1 ~~characterized by~~ further comprising a step of dewatering the water-washed paper piece.
4. (canceled)

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5. (original) The method of recovering a base paper for gypsum board as claimed in claim 1, wherein the ratio of a weight of the separated paper piece to a weight of fresh water in the washing water is in the range of 1: 5 – 1: 100.
6. (currently amended) The method of recovering a base paper for gypsum board as claimed in claim 1 ~~[[5]]~~, wherein, in the step of previously dispersing or mixing the separated paper piece into a portion of washing water, a ratio of a weight of the separated paper piece to a weight of the portion of washing water is in a range of 1: 1 – 1: 15.
7. (original) The method of recovering a base paper for gypsum board as claimed in claim 3, ~~characterized in that~~ wherein the step of dewatering the paper piece comprises squeezing and dewatering of the water-washed paper piece.
8. (currently amended) An apparatus of recovering a base paper for gypsum board, ~~characterized by comprising~~
 - a device configured to break a waste material of gypsum board;
 - a device configured to separate a burnt gypsum component and a paper piece from the broken waste material of gypsum board,
 - a rotary drum-type washing device configured to wash the separated paper piece with water so as to eliminate a burnt gypsum component adhering to the paper piece from the paper piece, and
 - a device configured to dewater the water-washed paper piece, and further having
 - a device configured to disperse or mix the separated paper piece into water before washing the separated paper piece with water.
9. (currently amended) The apparatus of recovering a base paper for gypsum board as claimed in claim 8, ~~characterized by further comprising~~ a device configured to burn the broken waste material of gypsum board.

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10. (canceled)

11. (currently amended) The apparatus of recovering a base paper for gypsum board as claimed in claim 8, ~~characterized in that~~ wherein the dewatering device is a device configured to squeeze and dewater the water-washed paper piece.